

An OSI tunnel routing method is provided, in which an IP packet which is encapsulated in an OSI packet is transmitted between transmission apparatuses in an OSI network each connected to an IP network. The transmission apparatuses exchange reachable IP network addresses and each own OSI network address, each of the transmission

5 apparatuses in an OSI network each connected to an IP network. The transmission apparatuses exchange reachable IP network addresses and each own OSI network address, each of the transmission apparatuses generates an OSI tunnel table which includes the OSI network addresses and the reachable IP network addresses, and a first transmission apparatus which receives an request to access an IP address determines a second transmission apparatus which can transfer data for the IP address by referring to the OSI tunnel table, and generates an OSI tunnel between the first transmission apparatus and the second transmission apparatus.